

What is Claimed is:

1. A sewing machine needle comprising a shank, a blade connected to said shank, a needle point formed at an extremity of said blade, a needle eye formed in the vicinity
5 of said needle point, and a long groove extending from said needle eye along said blade, wherein

said blade is provided on a surface thereof diametrically apart from said long groove with a scarf which is formed to be recessed at a shank side of said needle eye;

10 said blade is provided at a portion thereof where said scarf is formed with a crank in such a manner that a side of said portion is outwardly protruded in a direction opposite from said scarf with respect to a central axis of the needle; and

15 an end of said needle eye contiguous to said scarf is protruded outward by a predetermined height from a contour of said blade.

2. The sewing machine needle according to claim 1, wherein the total dimension of a protruded height of said crank and said protruded height of said end of said needle
20 eye is set to be within 30% of a height of said blade in a depth direction of said long groove.

3. The sewing machine needle according to claim 1, wherein opposite sidewalls of said needle eye include tops
25 which have the same height as that of said end of said needle eye.

4. The sewing machine needle according to claim 2, wherein opposite sidewalls of said needle eye include tops which have the same height as that of said end of said needle
30 eye.

5. The sewing machine needle according to claim 1, wherein a needle eye portion of said blade in the vicinity of said needle point is configured to have a straight form extending parallel to said central axis of the needle.

6. The sewing machine needle according to claim 2, wherein a needle eye portion of said blade in the vicinity of said needle point is configured to have a straight form extending parallel to said central axis of the needle.

5 7. The sewing machine needle according to claim 3, wherein a needle eye portion of said blade in the vicinity of said needle point is configured to have a straight form extending parallel to said central axis of the needle.

8. The sewing machine needle according to claim 1,
10 wherein said blade is formed to have a sectional shape of which a height in a depth direction of said long groove is equal to or more than a width thereof in a width direction of said long groove.

9. The sewing machine needle according to claim 2,
15 wherein said blade is formed to have a sectional shape of which a height in a depth direction of said long groove is equal to or more than a width thereof in a width direction of said long groove.

10. The sewing machine needle according to claim 3,
20 wherein said blade is formed to have a sectional shape of which a height in a depth direction of said long groove is equal to or more than a width thereof in a width direction of said long groove.

11. The sewing machine needle according to claim 5,
25 wherein said blade is formed to have a sectional shape of which a height in a depth direction of said long groove is equal to or more than a width thereof in a width direction of said long groove.

12. The sewing machine needle according to claim 1,
30 wherein said blade is provided at least on opposite side surfaces thereof with concave portions.

13. The sewing machine needle according to claim 2, wherein said blade is provided at least on opposite side surfaces thereof with concave portions.

14. The sewing machine needle according to claim 3,
wherein said blade is provided at least on opposite side
surfaces thereof with concave portions.

15. The sewing machine needle according to claim 5,
5 wherein said blade is provided at least on opposite side
surfaces thereof with concave portions.

16. The sewing machine needle according to claim 8,
wherein said blade is provided at least on opposite side
surfaces thereof with concave portions.